

IN THE CLAIMS

Claims 1-3 (Canceled)

Claim 4 (Currently Amended): ~~The~~ A core of ~~the~~ a waveguide of ~~the~~ an optical waveguide circuit device ~~according to claim 1~~, which is a core of an arrayed waveguide grating ~~type~~ optical multiplexer/demultiplexer, said optical waveguide circuit device including a substrate having a cleavage plane formed at least one of horizontally and perpendicularly to an orientation flat;

a waveguide formed from a core on said substrate; and

an incision line constructed by a groove or/and a separating slit formed by crossing at least one portion of the core of said waveguide;

wherein a face of said incision line is formed at an arbitrary angle with respect to the cleavage plane of said substrate, said optical multiplexer/demultiplexer comprising:

one or more optical input waveguides arranged side by side;

a first slab waveguide connected to output ends of said optical input waveguides;

an arrayed waveguide connected to an output end of said first slab waveguide and including a plurality of channel waveguides arranged side by side for transmitting light that has traveled through said first slab waveguide, said channel waveguides having different predetermined length;

a second slab waveguide connected to an output end of said arrayed waveguide; and

a plurality of optical output waveguides arranged side by side and connected to an output end of said second slab waveguide;

wherein the incision line is set to a separating slit for separating at least one of said first and second slab waveguides; the separating slit is formed to cross an optical path of at least one of said first and second slab waveguides;

a slide moving member slides and moves at least one side of the separating slab waveguide separated with this separating slit along said separating face depending on a temperature of AWG; and

a light transmission central wavelength of an arrayed waveguide grating type optical multiplexer/demultiplexer is shifted by a slide moving operation of said slide moving member depending on the temperature.

Claim 5 (Currently Amended): ~~An optical waveguide circuit device~~ The optical multiplexer/demultiplexer according to Claim 1 ~~4~~, wherein:

said cleavage plane and the face of said incision line are formed so as to set an angle therebetween to 20°.